

PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/800,179
Filing Date	March 12, 2004
First Named Inventor	William A. Cuevas
Art Unit	1645
Examiner Name	
Attorney Docket Number	DOC 0057 PA/40218.142

Sheet 1 of 1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
ADK		US- 2002/0064539 A1	05/30/2002	Philippe et al.	
		US- 2001/0006664 A1	07/05/2001	Ensley	
		US- 6,368,606 B1	04/09/2002	Dubief et al.	
		US- 6,358,501 B1	03/19/2002	Dietz et al.	
		US- 6,184,348 B1	02/06/2001	Ferrari et al.	
		US- 6,153,602	11/28/2000	Dubief et al.	
		US- 6,034,220	03/07/2000	Stedronsky	
		US- 5,627,148	05/06/1997	Dubief et al.	
		US- 5,626,853	05/06/1997	Bara et al.	
		US- 5,412,074	05/02/1995	Jones et al.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
ADK		EP 0 699 431 A1	03/06/1996	Seiwa Kasei Co., Ltd.		
ADK		EP 0 540 357 A2	05/05/1993	Croda International plc		

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First Named Inventor	Manoj Kumar
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		Number-Kind Code ² (if known)			
ADK		US 5,243,038	09/07/1993	Ferrari et al.	
		US 5,679,543	10/21/1997	Lawlis	
		US 6,004,444	12/21/1999	Aksay et al.	
		US 6,228,248 B1	05/08/2001	Aksay et al.	
		US 2001/0013294 A1	08/16/2001	Bruno et al.	
		US 2001/0027570 A1	10/04/2001	Blees	
		US 6,355,776	03/12/2002	Ferrari et al.	
		US 6,365,661 B1	04/02/2002	Fischer et al.	
		US 6,365,877 B1	04/02/2002	Chen et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
ADK		WO 00/35993	06/22/2000	Morse et al.		
ADK		WO 01/46213 A2	06/28/2001	Lion Bioscience AG		
ADK		WO 01/87825 A1	11/22/2001	Morse et al.		

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				Attorney Docket Number	DOC 0057 PA/40218.142

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ADN		DEMING, Facile synthesis of block copolypeptides of defined architecture, Nature, Vol 390, 27 November 1997, pgs. 386-389	
		FAN et al., Rapid prototyping of patterned functional nanostructures, Nature, Vol. 405, 4 May 2000, pgs. 56-60	
		BROTT et al., Ultrafast holographic nanopatterning of biocatalytically formed silica, Nature, Vol. 413, 20 September 2001, pgs. 291-293	
		HUO et al., Generalized synthesis of periodic surfactant/inorganic composite materials, Nature, Vol. 368, 24 March 1994, pgs. 317-321	
		ZHOU et al., Efficient Catalysis of Polysiloxane Synthesis by Silicatein α Requires Specific Hydroxy and Imidazole Functionalities, Angew. Chem. Int., Ed. 1999, 38, No. 6, pgs. 779-782	
		GOSLINE et al., Elastic proteins: biological roles and mechanical properties, The Royal Society, 28 February 2002, pages 121-132	
		KROGER et al., Polycationic Peptides from Diatom Biosilica That Direct Silica Nanosphere Formation, Science, Vol. 286, 5 November 1999, pgs. 1129-1132	
		NAIK et al., Silica-Precipitating Peptides Isolated from a Combinatorial Phage Display Peptide Library, Journal of Nanoscience and Nanotechnology, 2002, Vol. 2, No. 1, pgs. 95-100	
		KROGER et al., Silica-precipitating Peptides from Diatoms, THE CHEMICAL STRUCTURE OF SILAFFIN-1A FROM CYLINDROTHECA FUSIFORMIS, J. Biol. Chem., Vol. 276, Issue 28, 26066-26070, July 13, 2001, pgs. 1-12	
ADN		MIZUTANI et al., Silicic Acid Polymerization Catalyzed by Amines and Polyamines, Bull. Chem. Soc. Jpn., 71, 2017-2022 (1998)	

Examiner Signature		Date Considered	11/19/05
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	Examiner Name				
Sheet	3	of	3	Attorney Docket Number	DOC 0057 PAJ40218.142

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AK		MIZUTANI et al., Silicic Acid Polymerization Catalyzed by Amines and Polyamines, Chemistry Letters, 1998 pgs. 133-134	
		HATGERINK et al., Peptide-amphiphile nanofibers: A versatile scaffold for the preparation of self-assembling materials, PNAS, April 16, 2002, Vol. 99, No. 8, pgs. 5133-5138	
		ZHANG, Emerging biological materials through molecular self-assembly, Elsevier, Biotechnology Advances 20 (2002) pgs. 321-339	
		WONG et al., Assembly of Nanoparticles into Hollow Spheres Using Block Copolypeptides, Nano Letters, Vol. 0, No. 0, pgs. A-E	
		ARKLES, Commercial Applications of Sol-Gel Derived Hybrid Materials, Mrs. Bulletin, May 2001, pgs. 402-408	
		SARIKAYA, Biomimetics: Materials fabrication through biology, PNAS, December 7, 1999, Vol. 96, No. 25, pgs. 14183-14185	
		ALVAREZ, Engineering Protein Molecules for the Ordered Structuring of Silica, National Nanofabrication Users Network, pgs. 82-83	
		CORADIN et al., Biogenic Silica Patterning: Simple Chemistry or Subtle Biology? ChemBioChem 2003, 3, pgs. 1-9	

Examiner Signature		Date Considered	1/19/08
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